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14.

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/018,659	12/21/2001	Christer Aslund	2640-102	1985
6449	7590 02/10/2003			
	., FIGG, ERNST & M	EXAMINER		
1425 K STRE	ET, N.W.	JENKINS, DANIEL J		
WASHINGTO	ON, DC 20005	ART UNIT	PAPER NUMBER	
			1742	5
		DATE MAILED: 02/10/2003	ク	

Please find below and/or attached an Office communication concerning this application or proceeding.

	x .					0.2		
•		Applie	cation No.		Applicant(s)			
Office Action Summary		10/01	8,659		ASLUND, CHRISTER			
		Exam	iner		Art Unit	1		
		Danie	J. Jenkins		1742			
Period fo	The MAILING DATE of this commu or Reply	nication appears on	the cover	sheet with the co	rrespondence ad	idress		
THE - Exte after - If the - If NO - Failu - Any	ORTENED STATUTORY PERIOD IMAILING DATE OF THIS COMMUN nsions of time may be available under the provision SIX (6) MONTHS from the mailing date of this correspendence of the precious of the provision of the provision of the precious of the precious of the precious of the precious of the provision of the provisio	IICATION. s of 37 CFR 1.136(a). In rimunication. 30) days, a reply within the statutory period will apply a y will, by statute, cause the	o event, howe statutory min nd will expire to application to	over, may a reply be time imum of thirty (30) days SIX (6) MONTHS from the become ABANDONED	ely filed will be considered time ne mailing date of this o (35 U.S.C. § 133).	oly. communication.		
1)🛛	Responsive to communication(s)	iled on <u>21 March 2</u>	<u> 2002</u> .					
2a) <u></u> □	This action is FINAL.	2b)⊠ This actio	n is non-fi	nal.				
3)	Since this application is in condition closed in accordance with the praion of Claims	on for allowance ex ctice under <i>Ex part</i>	cept for fo e Quayle,	rmal matters, pro 1935 C.D. 11, 45	osecution as to t 53 O.G. 213.	ne merits is		
·	Claim(s) <u>1-6</u> is/are pending in the	annlication						
,	4a) Of the above claim(s) is/		consider	ation				
	Claim(s) is/are allowed.	are willigrawn from	Consider	ation.				
	Claim(s) <u>1-6</u> is/are rejected.							
•	Claim(s) is/are objected to.							
	Claim(s) are subject to restr	iction and/or election	n require	ment				
,	ion Papers	iction and/or cicott	on require	mone.				
9)	The specification is objected to by the	ne Examiner.						
,	The drawing(s) filed on is/are		)∏ object	ed to by the Exan	niner.			
	Applicant may not request that any o	ojection to the drawin	g(s) be hel	d in abeyance. Se	e 37 CFR 1.85(a).			
11)	The proposed drawing correction file	ed on is: a)[	] approve	ed b)□ disapprov	ed by the Examir	ner.		
	If approved, corrected drawings are r	equired in reply to thi	s Office ac	tion.				
12) The oath or declaration is objected to by the Examiner.								
Priority (	under 35 U.S.C. §§ 119 and 120							
13)	Acknowledgment is made of a clair	n for foreign priority	y under 35	i U.S.C. § 119(a)	-(d) or (f).			
a)	☐ All b)☐ Some * c)☐ None of:							
	1. Certified copies of the priority	y documents have	been rece	ived.				
	2. Certified copies of the priority	y documents have	been rece	ived in Application	n No			
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
	Acknowledgment is made of a claim			•		al application).		
a	The translation of the foreign late     Acknowledgment is made of a claim	inguage provisiona	l applicati	on has been rece	eived.	,		
Attachmen	•	·		-				
2) Notic	ce of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review mation Disclosure Statement(s) (PTO-1449)		4)	Interview Summary Notice of Informal P Other:				
.S. Patent and T	rademark Office							

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1 and 3-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Kankawa et al.

Kankawa et al. disclose a method for forming a sintered part comprising :

providing a powder mixture comprising a metal powder and a binder (col. 9, lines 27-30);

forming a green body (39-40);

removing the binder from the green body under a controlled atmosphere (col. 10, lines 38-40); and

sintering the debound green body to form a sintered part (col. 10, lines 45-51). Kankawa et al. further disclose wherein the metal powder is selected from a group comprising steel powder (col. 9, line 48).

Kankawa et al. further disclose wherein the binder includes gelatin (col. 8, line 41).

Kankawa et al. further disclose debinding and sintering temperatures within Applicant's range (col. 10, line 44 and col. 10, line 51).

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:



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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kankawa et al.

Kankawa et al. disclose the invention substantially as claimed (see paragraph 2 above).

However, Kankawa et al. do not disclose adding graphite to the powder mixture.

Kankawa et al. do disclose that his powder mixture can contain alloys.

It is common knowledge in the prior art add graphite to steel powders to be sintered in the same field of invention for the purpose of increasing the alloy hardness of the formed part.

It would have been obvious to one having ordinary skill in the art at the time of the invention to add graphite to the invention of Kankawa et al. in order to increase the hardness of the formed sintered part.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Jenkins whose telephone number is 703-306-4157. The examiner can normally be reached on M-TH6:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 703-308-1146. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9593 for regular communications and 703-305-7719 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Daniel J. Jenkins Primary Examiner Art Unit 1742

dj January 26, 2003